

2009 Dodge Journey R/T
2009 ACCESSORIES AND EQUIPMENT Power Doors - Non-DTC Diagnostics - Journey

2009 ACCESSORIES AND EQUIPMENT

Power Doors - Non-DTC Diagnostics - Journey

DIAGNOSIS AND TESTING

DRIVER DOOR LOCK INOPERATIVE

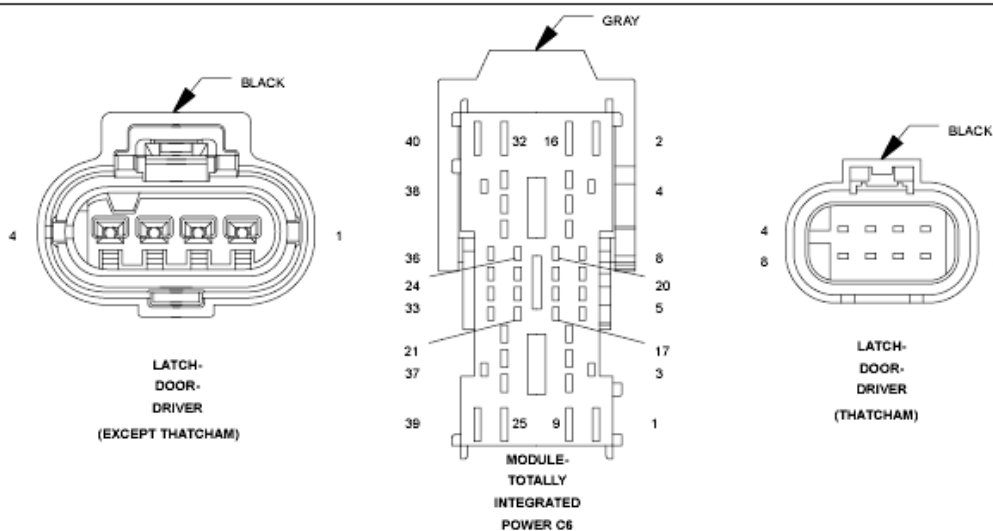
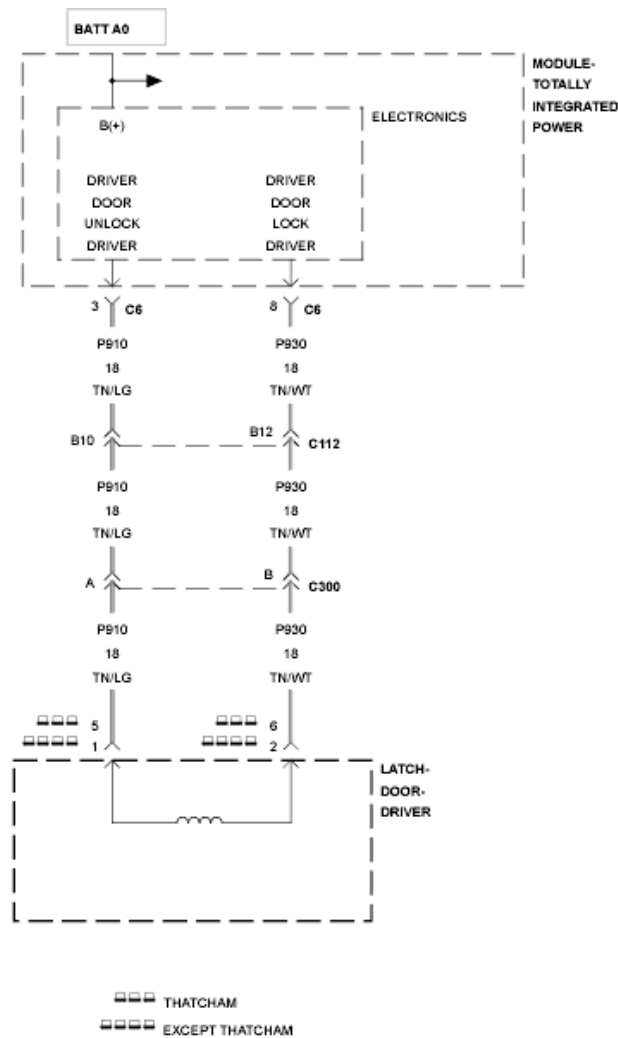


Fig. 1: Driver Door Lock/Unlock Circuit Schematic
Courtesy of CHRYSLER LLC

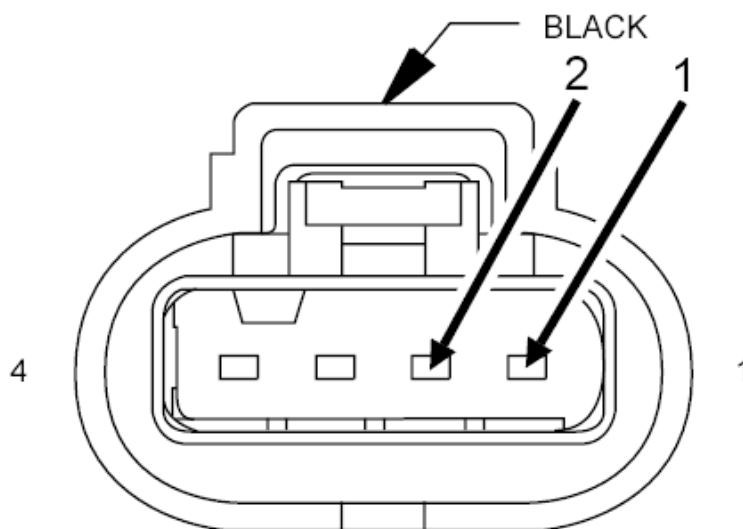
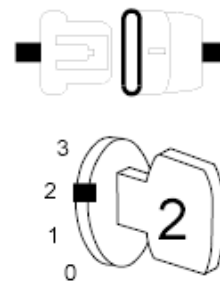
For complete wiring diagrams, refer to **SYSTEM WIRING DIAGRAMS**.

Possible Causes

(P930) DRIVER DOOR LOCK DRIVER CIRCUIT OPEN
 (P930) DRIVER DOOR LOCK DRIVER CIRCUIT SHORT TO GROUND
 (P910) DRIVER DOOR UNLOCK DRIVER CIRCUIT OPEN
 (P910) DRIVER DOOR UNLOCK DRIVER CIRCUIT SHORT TO GROUND
 DRIVER DOOR LATCH
 TOTALLY INTEGRATED POWER MODULE (TIPM)

Diagnostic Test

1. DRIVER DOOR LATCH INOPERATIVE



LATCH-
DOOR-
DRIVER

107841

Fig. 2: Checking Driver Door Latch Circuit With Test Light
Courtesy of CHRYSLER LLC

1. Disconnect the Driver Door Latch connector.
2. Connect a test light between the (P930) Driver Door Lock Driver circuit and the (P910) Driver Door Unlock Driver circuit.
3. Close the front doors or trip the door latches to the closed position.
4. Operate the door locks in both positions and observe the test light.

Does the test light illuminate brightly for approximately 300 ms. when the door locks are actuated?

Yes

- Replace the Driver Door Latch.
- Perform BODY VERIFICATION TEST - VER 1. Refer to **DTC-Based Diagnostics/MODULE, Totally Integrated Power (TIPM) - Standard Procedure** .

No

- Go to step 2

2. CHECK (P910) DRIVER DOOR UNLOCK DRIVER CIRCUIT OPEN

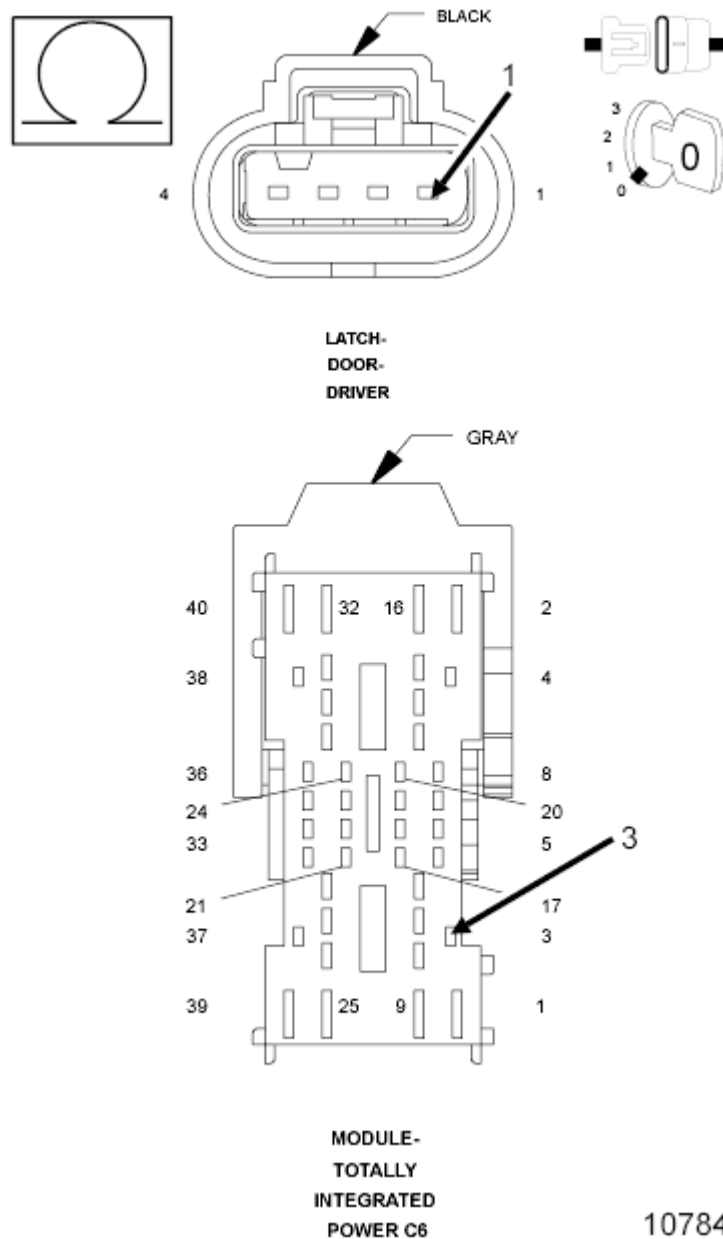


Fig. 3: Checking Driver Door Unlock Driver Circuit For Open
 Courtesy of CHRYSLER LLC

1. Turn the ignition off.
2. Disconnect the TIPM C6 connector.
3. Measure the resistance of the (P910) Driver Door Unlock Driver circuit between the Latch connector and the TIPM C6 connector.

Is the resistance below 2.0 ohms?

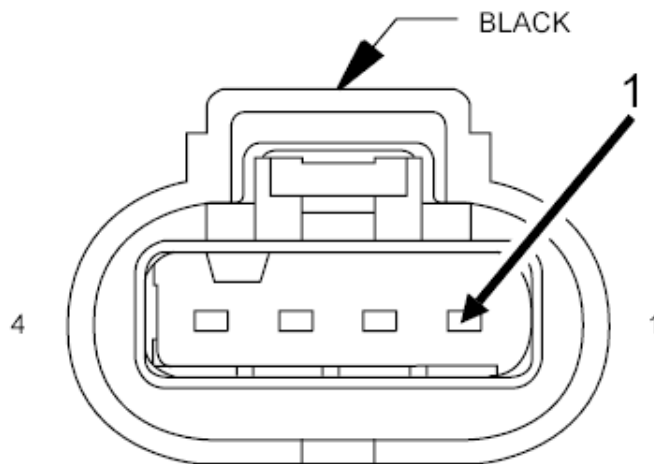
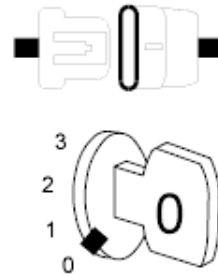
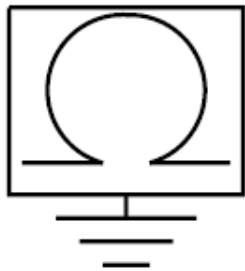
No

- Repair the (P910) Driver Door Unlock Driver circuit for an open.
- Perform BODY VERIFICATION TEST - VER 1. Refer to **DTC-Based Diagnostics/MODULE, Totally Integrated Power (TIPM) - Standard Procedure**.

Yes

- Go to step 3

3. **CHECK (P910) DRIVER DOOR UNLOCK DRIVER CIRCUIT SHORT TO GROUND**



LATCH-
DOOR-
DRIVER

107845

Fig. 4: Checking Driver Door Unlock Driver Circuit For Short To Ground
Courtesy of CHRYSLER LLC

1. Measure the resistance between Ground and the (P910) Driver Door Unlock Driver circuit.

2009 Dodge Journey R/T

2009 ACCESSORIES AND EQUIPMENT Power Doors - Non-DTC Diagnostics - Journey

Is the resistance below 1000.0 ohms?

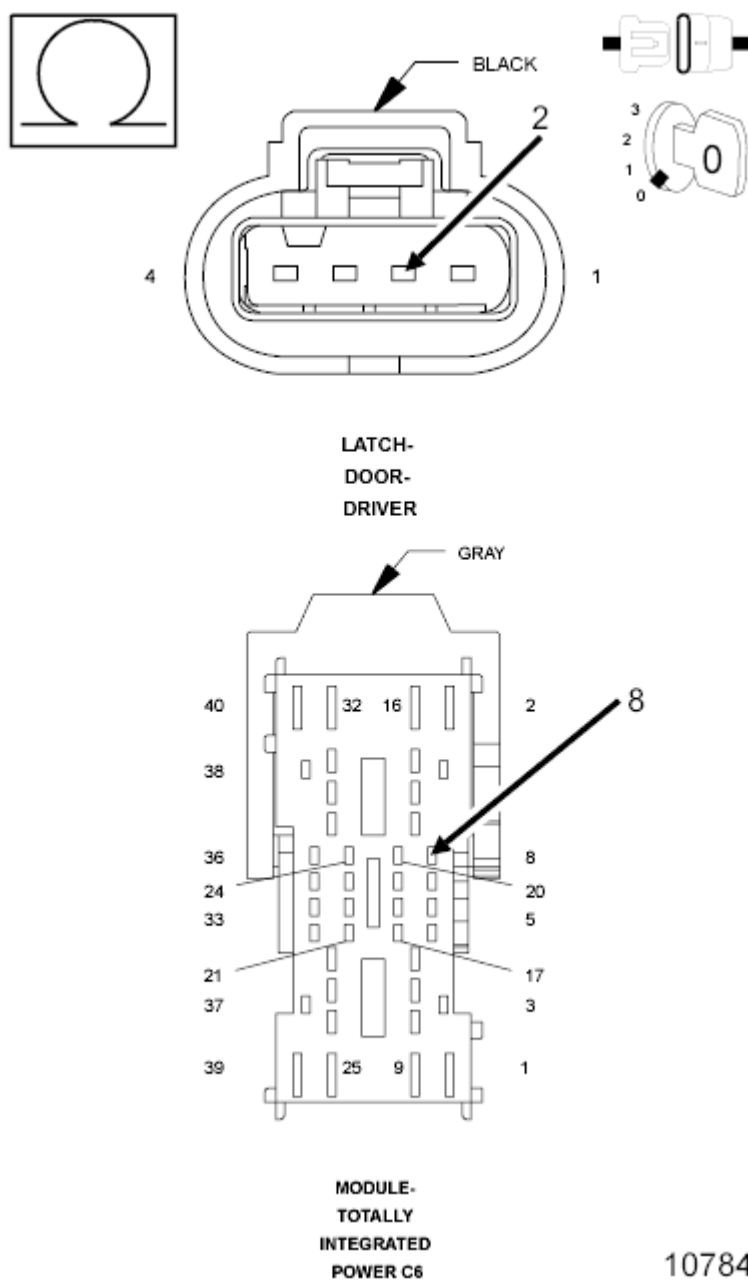
Yes

- Repair the (P910) Driver Door Unlock Driver circuit for a short to ground.
- Perform BODY VERIFICATION TEST - VER 1. Refer to **DTC-Based Diagnostics/MODULE, Totally Integrated Power (TIPM) - Standard Procedure** .

No

- Go to step 4

4. CHECK (P930) DRIVER DOOR LOCK DRIVER CIRCUIT OPEN



107847

Fig. 5: Checking Driver Door Lock Driver Circuit For Open
Courtesy of CHRYSLER LLC

1. Measure the resistance of the (P930) Driver Door Lock Driver circuit between the TIPM C6 connector and the Driver Door Latch connector.

Is the resistance below 2.0 ohms?

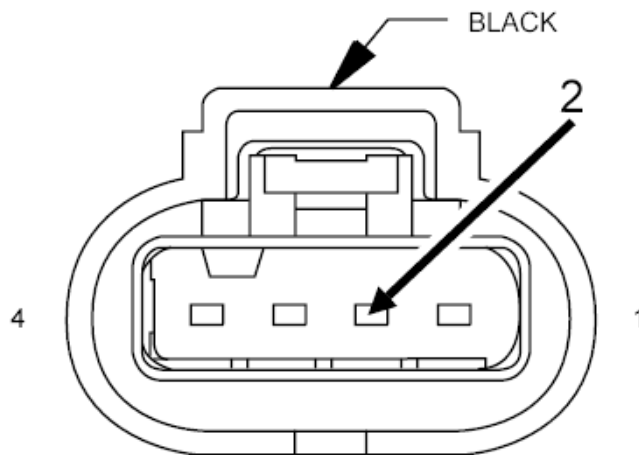
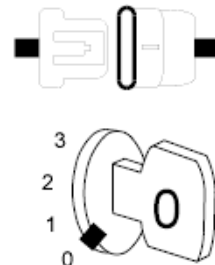
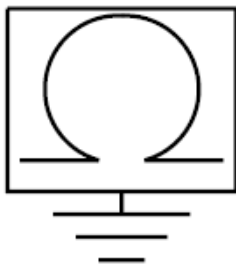
Yes

- Go to step 5

No

- Repair the (P930) Driver Door Lock Driver circuit for an open.
- Perform BODY VERIFICATION TEST - VER 1. Refer to **DTC-Based Diagnostics/MODULE, Totally Integrated Power (TIPM) - Standard Procedure**.

5. CHECK (P930) DRIVER DOOR LOCK DRIVER CIRCUIT SHORT TO GROUND



LATCH-
DOOR-
DRIVER

107849

Fig. 6: Checking Driver Door Lock Driver Circuit For Short To Ground

Courtesy of CHRYSLER LLC

1. Measure the resistance between Ground and the (P930) Driver Door Lock Driver circuit.

Is the resistance below 1000.0 ohms?

2009 Dodge Journey R/T

2009 ACCESSORIES AND EQUIPMENT Power Doors - Non-DTC Diagnostics - Journey

Yes

- Repair the (P930) Driver Door Lock Driver circuit for a short to ground.
- Perform BODY VERIFICATION TEST - VER 1. Refer to **DTC-Based Diagnostics/MODULE, Totally Integrated Power (TIPM) - Standard Procedure** .

No

- Replace the Totally Integrated Power Module in accordance with service information.
- Perform BODY VERIFICATION TEST - VER 1. Refer to **DTC-Based Diagnostics/MODULE, Totally Integrated Power (TIPM) - Standard Procedure** .

LIFTGATE LOCK INOPERATIVE

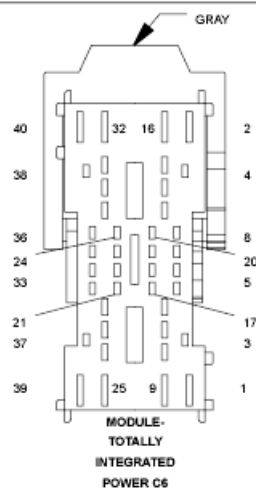
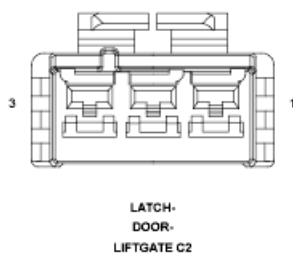
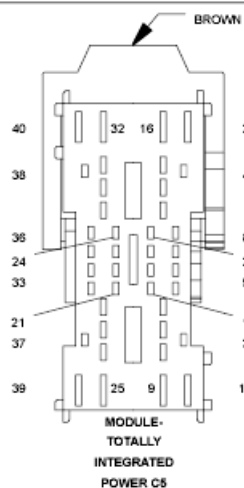
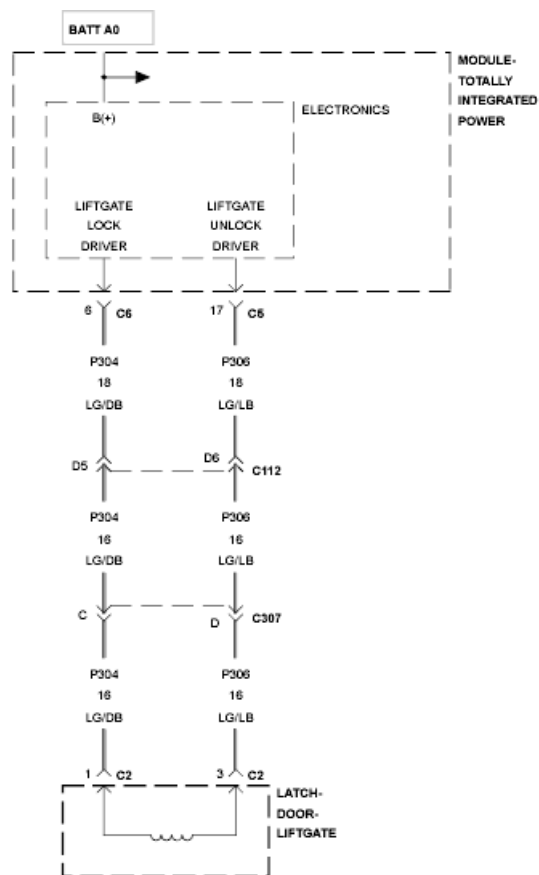


Fig. 7: Liftgate Lock/Unlock Circuit Schematic
Courtesy of CHRYSLER LLC

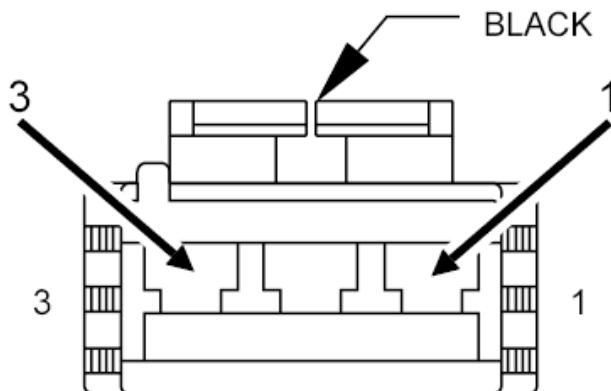
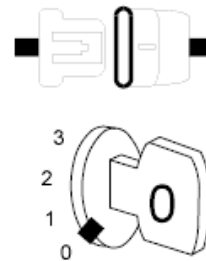
For complete wiring diagrams, refer to **SYSTEM WIRING DIAGRAMS**.

Possible Causes

(P304) TAILGATE (LIFTGATE) LOCK DRIVER CIRCUIT OPEN
 (P304) TAILGATE (LIFTGATE) LOCK DRIVER CIRCUIT SHORT TO GROUND
 (P306) TAILGATE (LIFTGATE) UNLOCK DRIVER CIRCUIT OPEN
 (P306) TAILGATE (LIFTGATE) UNLOCK DRIVER CIRCUIT SHORT TO GROUND
 TAILGATE LATCH
 TOTALLY INTEGRATED POWER MODULE (TIPM)

Diagnostic Test

1. LIFTGATE LATCH INOPERATIVE



LATCH-
DOOR-
LIFTGATE C2

107869

Fig. 8: Checking Tailgate Lock & Unlock Driver Circuits With Test Light
 Courtesy of CHRYSLER LLC

1. Turn the ignition off.

2009 Dodge Journey R/T

2009 ACCESSORIES AND EQUIPMENT Power Doors - Non-DTC Diagnostics - Journey

2. Disconnect the Tailgate Latch connector.
3. Connect a test light between the (P304) Tailgate Lock Driver circuit and the (P406) Tailgate Unlock Driver circuit.
4. Close the front doors or trip the front door latches to the closed position.
5. Operate the door locks in both positions and observe the test light.

Does the test light illuminate brightly for approximately 300 ms. when the door locks are actuated?

Yes

- Replace the Liftgate Latch.
- Perform BODY VERIFICATION TEST - VER 1. Refer to **DTC-Based Diagnostics/MODULE, Totally Integrated Power (TIPM) - Standard Procedure** .

No

- Go to step 2

2. (P306) TAILGATE UNLOCK DRIVER CIRCUIT OPEN

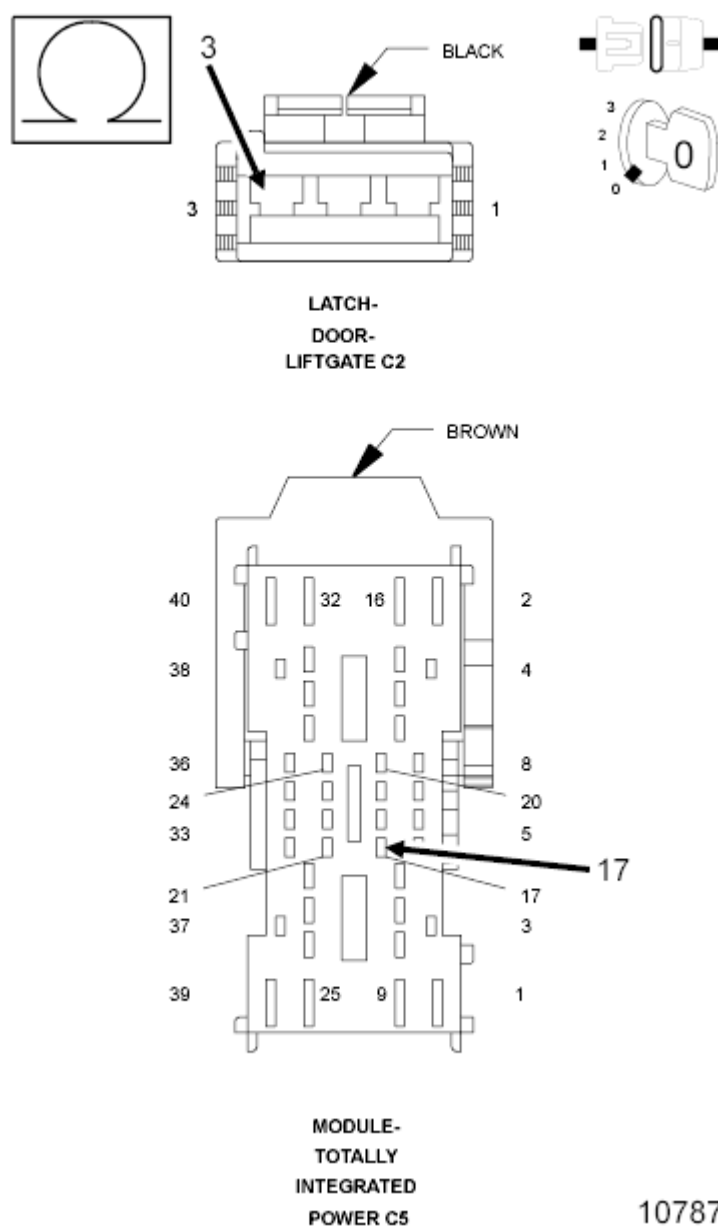


Fig. 9: Checking Tailgate Unlock Driver Circuit For Open
 Courtesy of CHRYSLER LLC

1. Disconnect the TIPM C5 connector.
2. Measure the resistance of the (P306) Tailgate Unlock Driver circuit between the Latch connector and the TIPM C5 connector.

Is the resistance below 2.0 ohms?

No

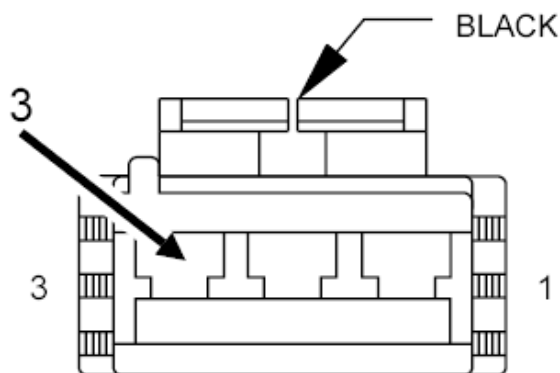
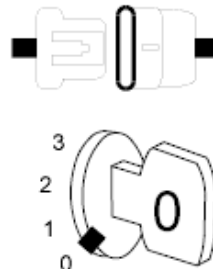
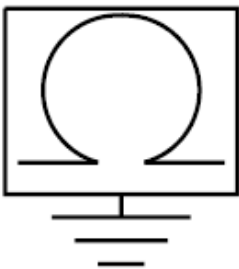
- Repair the (P306) Tailgate Unlock Driver circuit for an open.

- Perform BODY VERIFICATION TEST - VER 1. Refer to **DTC-Based Diagnostics/MODULE, Totally Integrated Power (TIPM) - Standard Procedure** .

Yes

- Go to step 3

3. (P306) TAILGATE UNLOCK DRIVER CIRCUIT SHORT TO GROUND



LATCH-
DOOR-
LIFTGATE C2

107873

Fig. 10: Checking Tailgate Unlock Driver Circuit For Short To Ground
Courtesy of CHRYSLER LLC

1. Measure the resistance between Ground and the (P306) Tailgate Unlock Driver circuit.

Is the resistance below 1000.0 ohms?

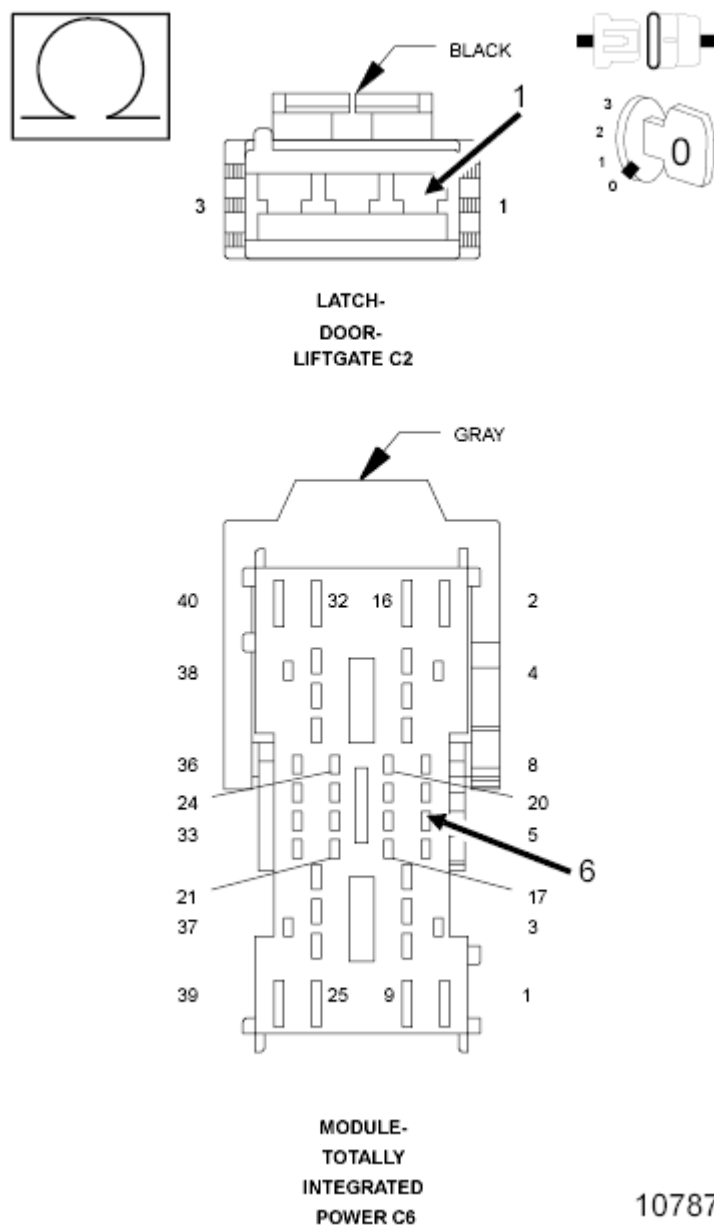
Yes

- Repair the (P306) Tailgate Unlock Driver circuit for a short to ground.
- Perform BODY VERIFICATION TEST - VER 1. Refer to **DTC-Based Diagnostics/MODULE, Totally Integrated Power (TIPM) - Standard Procedure** .

No

- Go to step 4

4. (P304) TAILGATE LOCK DRIVER CIRCUIT OPEN



107875

Fig. 11: Checking Tailgate Lock Driver Circuit For Open

Courtesy of CHRYSLER LLC

1. Disconnect the TIPM C6 connector.
2. Measure the resistance of the (P304) Tailgate Lock Driver circuit between the TIPM C6 connector and the Tailgate Latch connector.

Is the resistance below 2.0 ohms?

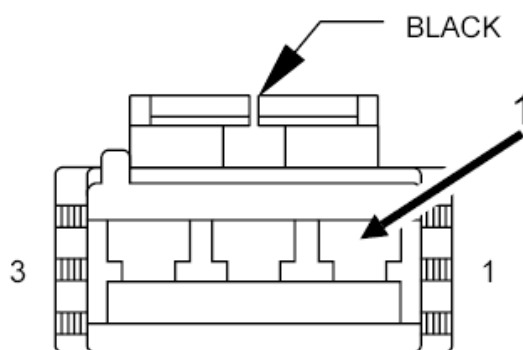
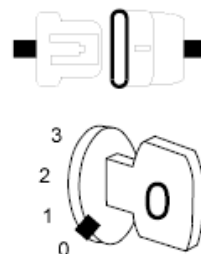
Yes

- Go to step 5

No

- Repair the (P304) Tailgate Lock Driver circuit for an open.
- Perform BODY VERIFICATION TEST - VER 1. Refer to **DTC-Based Diagnostics/MODULE, Totally Integrated Power (TIPM) - Standard Procedure** .

5. (P304) TAILGATE DOOR LOCK DRIVER CIRCUIT SHORT TO GROUND



LATCH-
DOOR-
LIFTGATE C2

Fig. 12: Checking Tailgate Door Lock Driver Circuit For Short To Ground
Courtesy of CHRYSLER LLC

1. Measure the resistance between Ground and the (P304) Tailgate Lock Driver circuit.

Is the resistance below 1000.0 ohms?

Yes

- Repair the (P304) Tailgate Lock Driver circuit for a short to ground.
- Perform BODY VERIFICATION TEST - VER 1. Refer to **DTC-Based Diagnostics/MODULE, Totally Integrated Power (TIPM) - Standard Procedure** .

No

- Replace the Totally Integrated Power Module in accordance with service information.
- Perform BODY VERIFICATION TEST - VER 1. Refer to **DTC-Based Diagnostics/MODULE, Totally Integrated Power (TIPM) - Standard Procedure** .

ONE PASSENGER DOOR LOCK INOPERATIVE

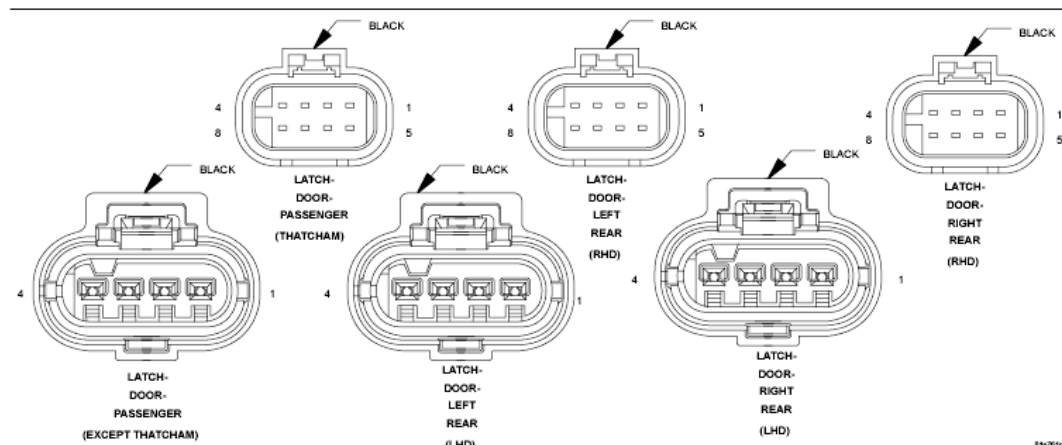
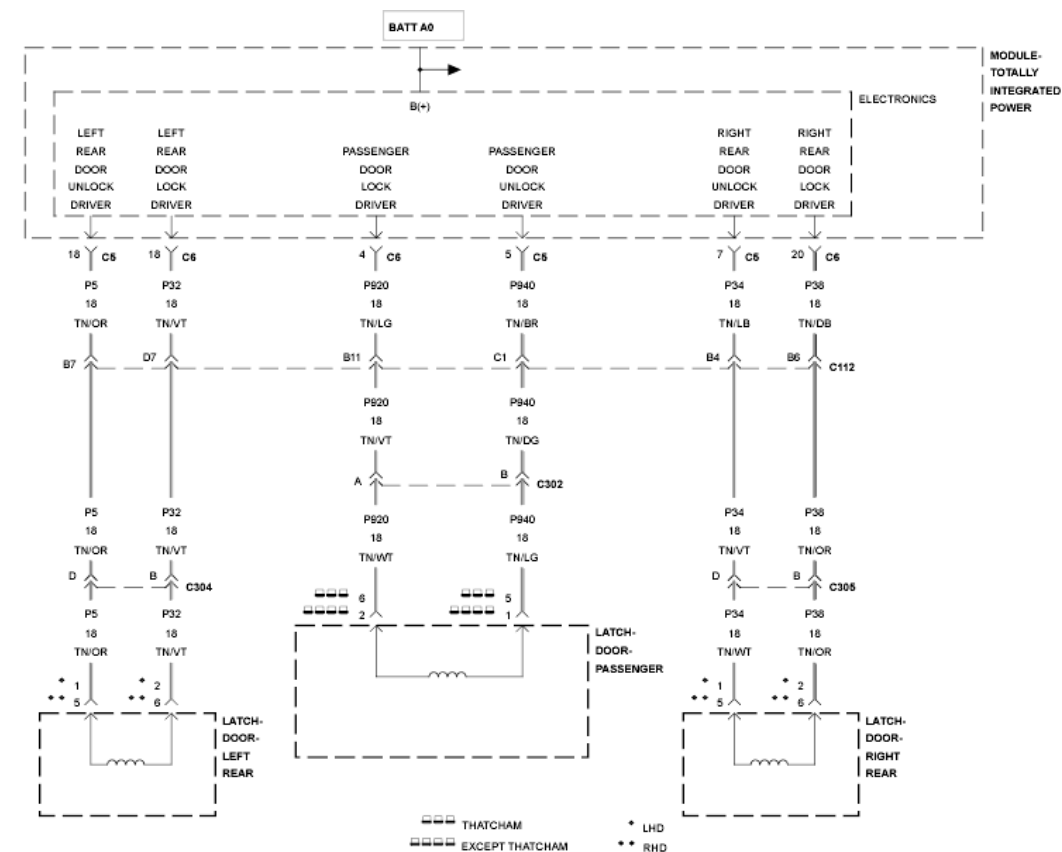


Fig. 13: Passenger & Rear Door Lock/Unlock Driver Circuit Schematic
Courtesy of CHRYSLER LLC

For complete wiring diagrams, refer to **SYSTEM WIRING DIAGRAMS** .

Possible Causes

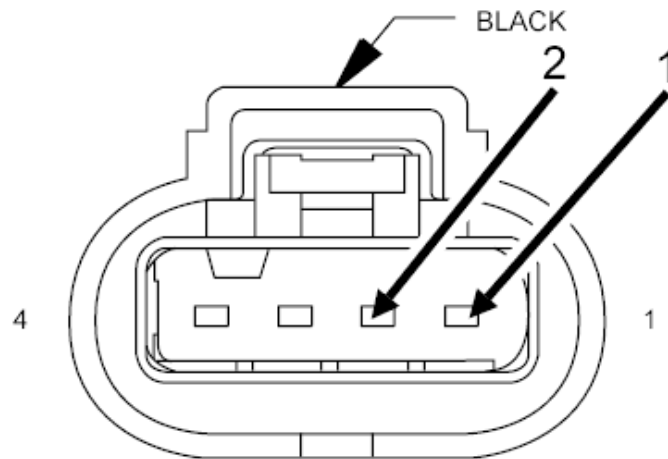
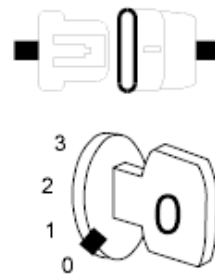
(P32), (P38) OR (P920) DOOR LOCK DRIVER CIRCUIT OPEN

(P32, (P38) OR (P920) DOOR LOCK DRIVER CIRCUIT SHORT TO GROUND
(P5), (P34) OR (P940) DOOR UNLOCK DRIVER CIRCUIT OPEN
(P5), (P34) OR (P940) DOOR UNLOCK DRIVER CIRCUIT SHORT TO GROUND
TOTALLY INTEGRATED POWER MODULE (TIPM)
DOOR LATCH

Diagnostic Test

1. PASSENGER DOOR LATCH INOPERATIVE

NOTE: Graphics in this test show Left Rear Latch. For the other 2 passenger door lock cavities, see the schematic.



LATCH-
DOOR-
LEFT
REAR
(4 DOOR)

107855

Fig. 14: Checking Passenger Door Latch Circuits With Test Light

Courtesy of CHRYSLER LLC

1. Turn the ignition off.
2. Disconnect the inoperative Passenger Door latch connector.
3. Connect a test light between the Door Lock Driver circuit and the Door Unlock Driver circuit.
4. Close the front doors or trip the door latches to the closed position.
5. Operate the door locks in both positions and observe the test light.

Does the test light illuminate brightly for approximately 300 ms. when the door locks are actuated?

Yes

- Replace the Passenger Door Latch Assembly.
- Perform BODY VERIFICATION TEST - VER 1. Refer to **DTC-Based Diagnostics/MODULE, Totally Integrated Power (TIPM) - Standard Procedure** .

No

- Go to step 2

2. PASSENGER DOOR UNLOCK DRIVER CIRCUIT OPEN

NOTE: Graphics in this test show Left Rear Latch. For the other 2 passenger door lock cavities, see the schematic.

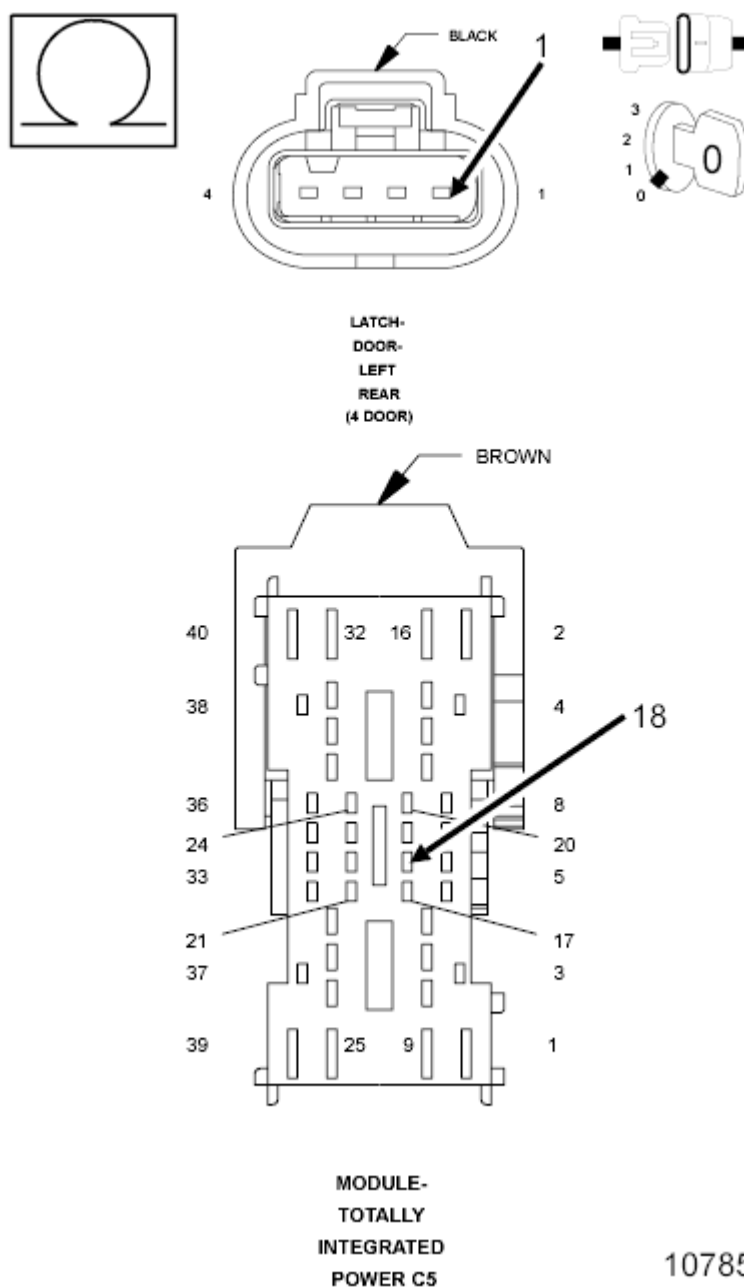


Fig. 15: Checking Passenger Door Unlock Driver For Circuit Open
Courtesy of CHRYSLER LLC

1. Disconnect the TIPM C5 connector.
2. Measure the resistance of the appropriate Door Unlock Driver circuit between the Latch connector and the TIPM C5 connector.

Is the resistance below 2.0 ohms?

No

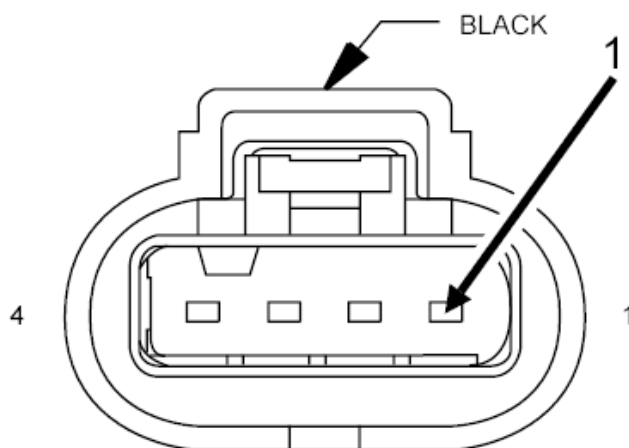
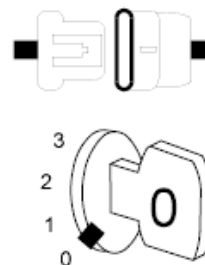
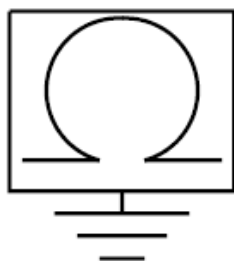
- Using the wiring diagram/schematic as a guide, measure the circuit from the in-line door harness connector to the latch connector to determine if the wire is open in the door harness or the instrument panel harness. Repair the appropriate Door Unlock Driver circuit for an open.
- Perform BODY VERIFICATION TEST - VER 1. Refer to **DTC-Based Diagnostics/MODULE, Totally Integrated Power (TIPM) - Standard Procedure** .

Yes

- Go to step 3

3. PASSENGER DOOR UNLOCK DRIVER CIRCUIT SHORT TO GROUND

NOTE: Graphics in this test show Left Rear Latch. For the other 2 passenger door lock cavities, see the schematic.



LATCH-
DOOR-
LEFT
REAR
(4 DOOR)

107859

Fig. 16: Checking Passenger Door Unlock Driver Circuit For Short To Ground
Courtesy of CHRYSLER LLC

1. Measure the resistance between Ground and the appropriate Door Unlock Driver circuit.

Is the resistance below 1000.0 ohms?

Yes

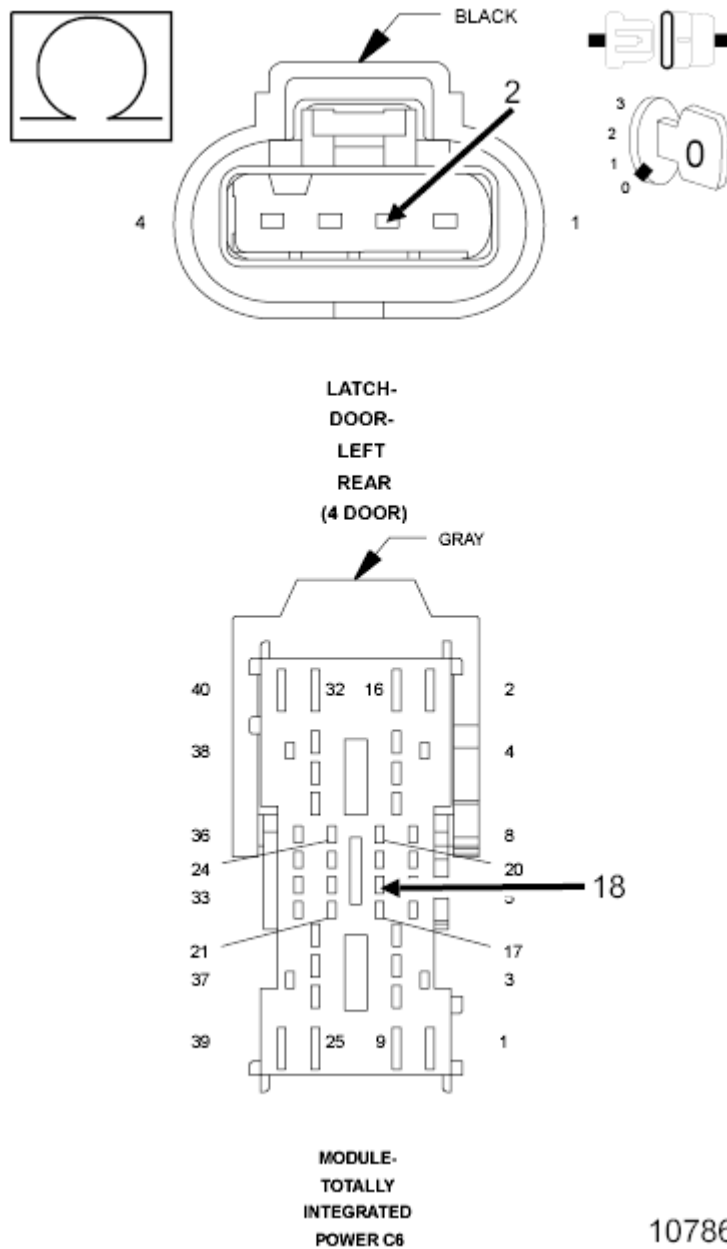
- Using the wiring diagram/schematic as a guide, measure the circuit from the in-line door harness connector to ground to determine if the wire is shorted in the door harness or the instrument panel harness. Repair the appropriate Door Unlock Driver circuit for a short to ground.
- Perform BODY VERIFICATION TEST - VER 1. Refer to **DTC-Based Diagnostics/MODULE, Totally Integrated Power (TIPM) - Standard Procedure** .

No

- Go to step 4

4. PASSENGER DOOR LOCK DRIVER CIRCUIT OPEN

NOTE: Graphics in this test show Left Rear Latch. For the other 2 passenger door lock cavities, see the schematic.



107861

Fig. 17: Checking Passenger Door Lock Driver Circuit For Open
Courtesy of CHRYSLER LLC

1. Disconnect the TIPM C6 connector.
2. Measure the resistance of the appropriate Door Lock Driver circuit between the TIPM C6 connector and the appropriate Door Latch connector.

Is the resistance below 2.0 ohms?

Yes

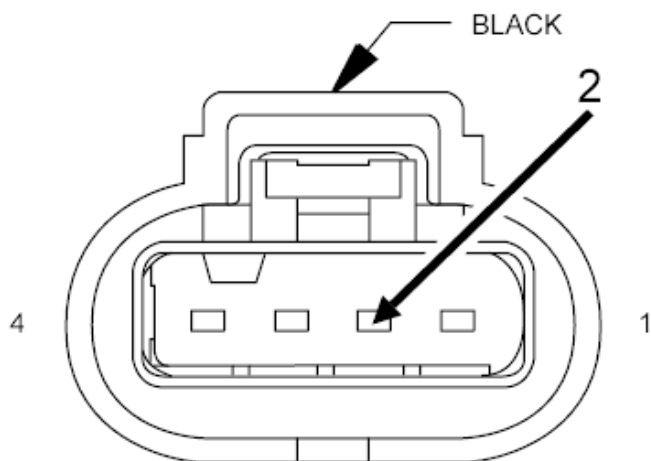
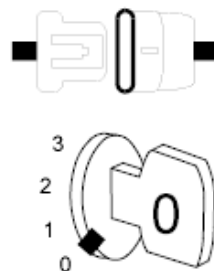
- Go to step 5

No

- Using the wiring diagram/schematic as a guide, measure the circuit from the in-line door harness connector to the latch connector to determine if the wire is open in the door harness or the instrument panel harness. Repair the appropriate Door Lock Driver circuit for an open.
- Perform BODY VERIFICATION TEST - VER 1. Refer to **DTC-Based Diagnostics/MODULE, Totally Integrated Power (TIPM) - Standard Procedure** .

5. PASSENGER DOOR LOCK DRIVER CIRCUIT SHORT TO GROUND

NOTE: Graphics in this test show Left Rear Latch. For the other 2 passenger door lock cavities, see the schematic.



LATCH-
DOOR-
LEFT
REAR
(4 DOOR)

107863

Fig. 18: Checking Passenger Door Lock Driver Circuit For Short To Ground
Courtesy of CHRYSLER LLC

1. Measure the resistance between Ground and the appropriate Door Lock Driver circuit.

Is the resistance below 1000.0 ohms?

Yes

- Using the wiring diagram/schematic as a guide, measure the circuit from the in-line door harness connector to ground to determine if the wire is shorted in the door harness or the instrument panel harness. Repair the appropriate Door Lock Driver circuit for a short to ground.
- Perform BODY VERIFICATION TEST - VER 1. Refer to **DTC-Based Diagnostics/MODULE, Totally Integrated Power (TIPM) - Standard Procedure** .

No

- Replace the Totally Integrated Power Module in accordance with service information.
- Perform BODY VERIFICATION TEST - VER 1. Refer to **DTC-Based Diagnostics/MODULE, Totally Integrated Power (TIPM) - Standard Procedure** .